



Technology Needs Assessments: Overall Project Approach and Methodology

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Technology Needs Assessments

(A GEF funded project under Poznan Strategic Programme on
Technology Transfer)

Overall Project Approach and Methodology

First Regional Capacity Building Workshop- Asia

(Round one countries)

September 15 - 17, 2010

Bangkok, Thailand

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Project Objectives

- To identify and prioritize through country-driven participatory processes, technologies that can contribute to mitigation and adaptation goals of the participant countries, while meeting their national sustainable development goals and priorities (TNA).
- **To identify barriers hindering the acquisition, deployment, and diffusion of prioritized technologies.**
- **To develop Technology Action Plans (TAP) specifying activities and enabling frameworks to overcome the barriers and facilitate the transfer , adoption, and diffusion of selected technologies in the participant countries.**

Learning from first TNA

First Round TNAs- Lessons Learnt ; UNDP and UNEP Synthesis Report (2008)

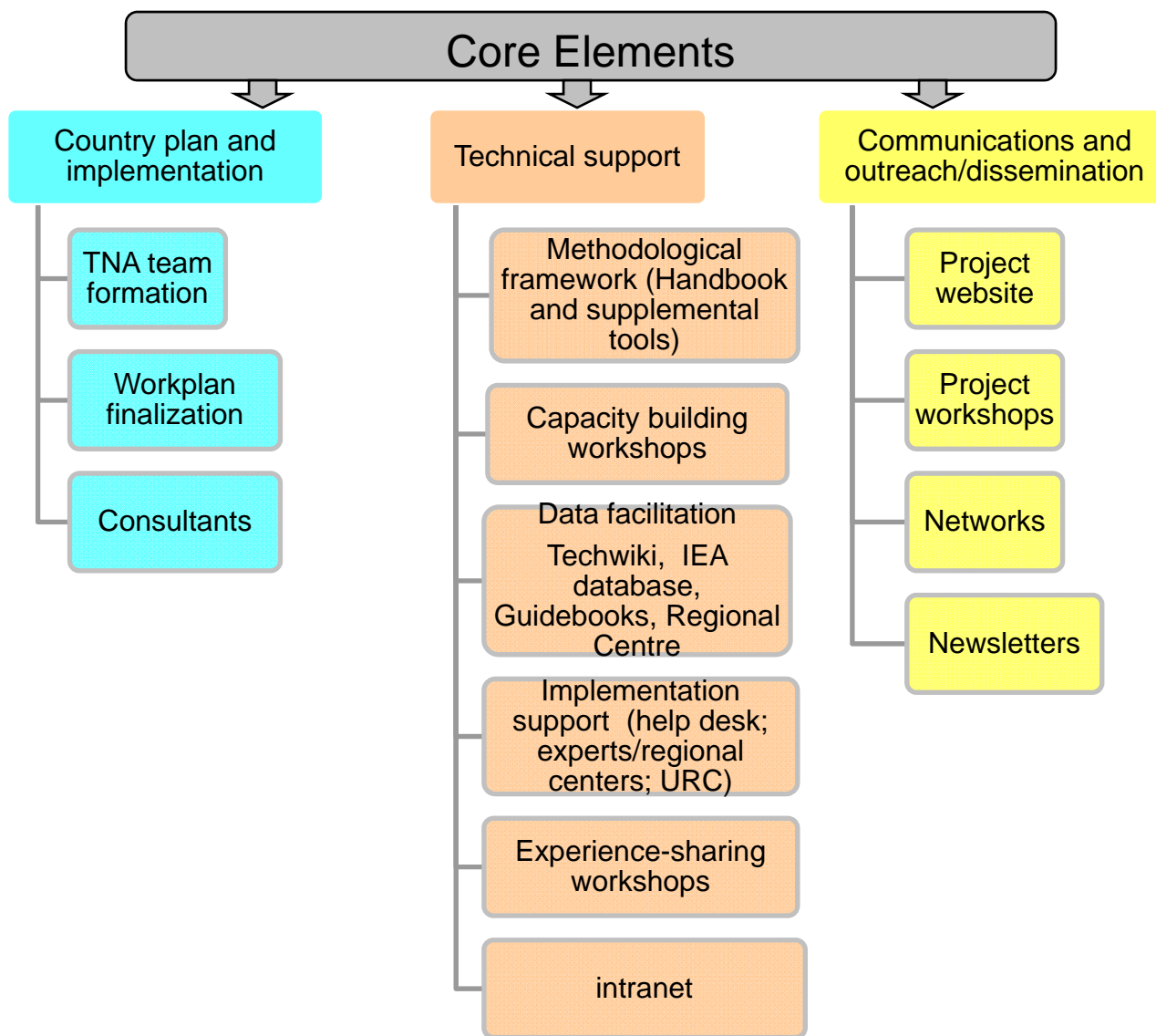
- Strengthening national capacity should be a key priority for future work on technology transfer activities
- Identification of Technology Needs for Adaptation needs strengthening
- Stakeholders role needs to be well defined and involvement strengthened
- Non-technological options need to be given better attention
- Activities should be well defined and timely technical guidance should be available
- Implementation of the findings needs to be supported
-

Learning from TNA Best Practices Workshop

TNA Best Practices (UNFCCC Workshop report, 2007)

- A good institutional set-up in countries needed
 - Project coordinator and team (of experts) right candidates
 - Stakeholder group from key relevant institutions
- Detailed workplan with clear objectives and roles, in consultation with stakeholders
- Use right (most recent) methodology, adapt guidance to national circumstances
- Decide on the tool of prioritization in accordance to the national circumstances
- Use a wide range of criteria, identify a small number of key sectors
- **Need to Conduct a barrier analysis for the selected/prioritized technologies**
- **Need to Draw implementation plans to address the barriers identified**
- **Develop project proposals**
-

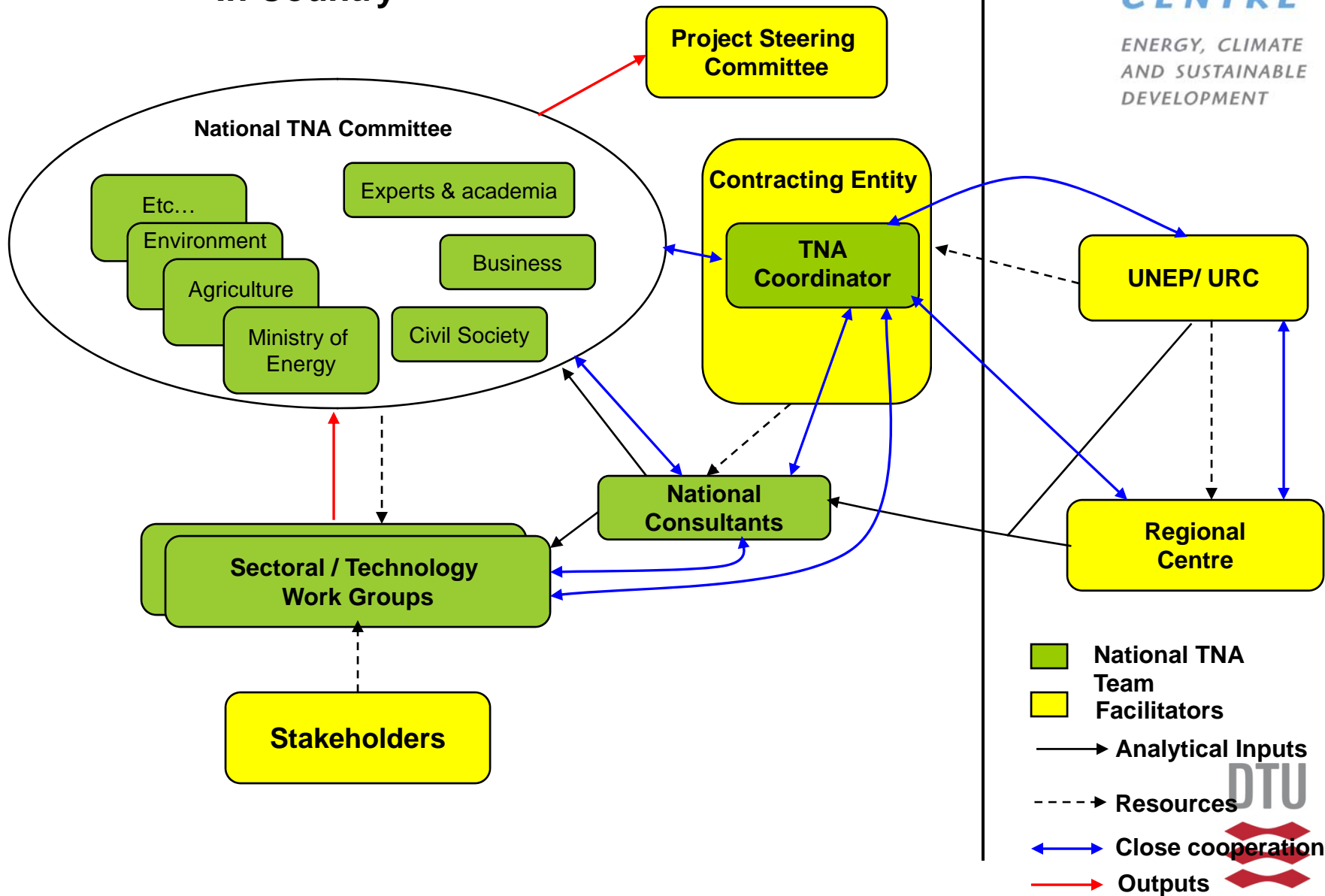
Approach



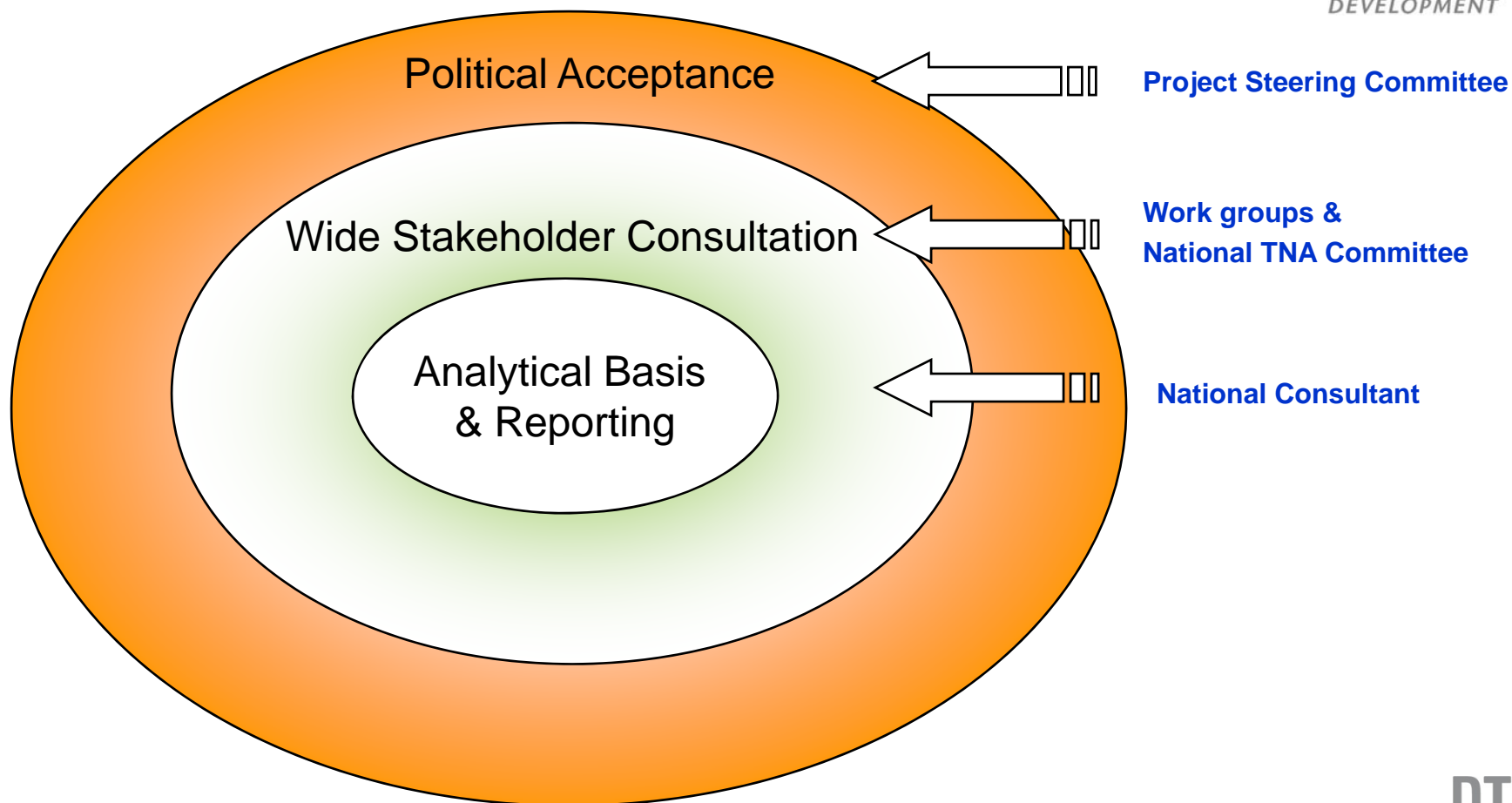
Organisational Structure

In Country

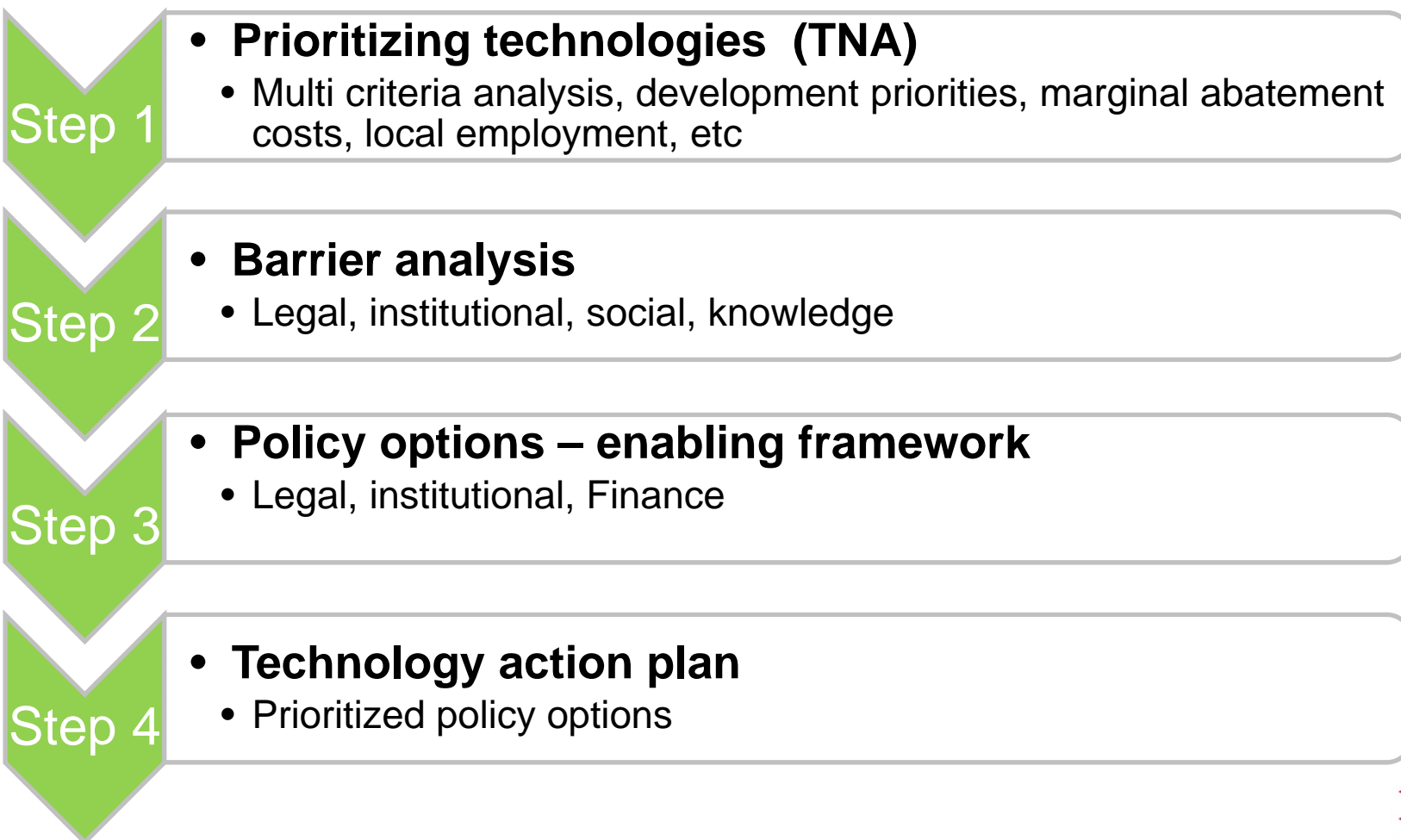
Global



Role of organizational elements



Steps in preparing Technology Action Plans (TAP)



Step One:

Prioritizing and selecting technologies

- Objective
 - To select a few for further market analysis and final inclusion in the action plan
- Inputs
 - Review of existing planning documents (TNA, NAPA, National communications, Energy plans, Renewable energy plans, PRSP)
 - Stakeholder experience and expert knowledge
 - Information from technology database (TechWiki)
- Multi Criteria Analysis (MCA) with groups of informed stakeholders
 - Contribution to development goals (poverty, social, environment)
 - Economically competitive to base line
 - Significant reduction potential
 - Industrial development/Employment effects



National abatement cost curves

Step two: Barrier analysis

- Facilitating workshops: (consultant)
 - Activities:
 - Identify, analyse, group, cluster (linkages) and prioritize barriers
 - Input
 - Preparation material from consultant
 - Facilitators skills
 - Stakeholders knowledge
 - Market assessment tool
 - Guidebook on barrier analysis

Step three: Enabling framework

- Economic Incentives
 - Tax exemptions, smart subsidies, cheap financing
 - Government finance schemes
- Institutional changes
 - Energy efficiency, renewable energy (agencies, funds)
 - Flood control, coastal zone management (regional, national)
- Legal changes
 - Standards, Building codes, lighting standards, blending targets
 - power purchase agreements,
 - (something for adaptation here)

Step 4: Technology Action Plan

- Barrier analysis
- Enabling framework
- Action plans and proposals
 - ✓ Domestic action plans (Prioritized set of actions to enhance market penetration- policies, regulations etc. with timelines and targets, responsible actors/institutions)
 - ✓ Political process ensuring buy in by politicians
 - ✓ Resource requirements
 - ✓ Financing needs (external, national) specified
 - ✓ Program ideas and Projects



Activity Plan

UNEP

Sr. No.	Milestone	Scheduled Date	Expected Date	Actual Date
	Award of Project by GEF			October 2009
	Project start date			Nov. 2009
	PCA signed with DTIE			Dec. 2009
	Project completion date	April 2012		
1.	15 countries (1 st Round) selected and approved			December 2009
2.	Inception Workshop	Jan-March 2010		February 2010
3.	Project web-site and intranet operational	March 2010		May 2010
4.	Contracts with Regional Centres signed	April-May 2010		June September 2010
5.	Contracts with 1 st Round countries signed	April 2010	April- Sep 2010	Status separately
6.	1 st Capacity Building Workshops for 1 st Round Countries held, focusing on approach for identification of priority technologies (mitigation and adaptation),	April 2010		Sep 2010
7.	Techwiki launched- first version available to countries	May 2010		August 2010
8.	2 nd Capacity Building Workshops for 1 st Round Countries held , focusing on market assessment and enabling framework, and technology action plan (barrier removal framework and TAP)	September 2010	November 2010	
9.	Selection of 20/30 countries (2 nd Round)	October 2010	September 2010	
10.	Side Event at COP Mexico	December 2010		
11.	Release of TNA Reports for 1 st Round Countries (Start)	January 2011	February 2011	



Activity Plan

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Sr. No.	Milestone	Scheduled Date	Expected Date	Actual Date
12.	Inception Workshop for 2 nd round countries held	January 2011	October 2010	
13.	First draft of guidebooks completed (2 to 3)	January 2011	Nov 2011	Coastal - August 2011
14.	Country missions for 2 nd Round countries	January 2011	October-November 2010	
15.	1 st Capacity Building Workshops for 2 nd Round Countries	February 2011		
16.	2 nd Capacity Building Workshops for 2 nd Round Countries	June 2011		
17.	Release of TAPs for 1 st Round Countries started	June 2011-Aug 2011	October 2011	
18.	Final Country Report submitted for 1 st Round countries	July-Sept, 2011	Oct - Nov 2011	
19.	Experience Sharing Workshop for 1 st round countries	September. 2011		
20.	Release of TNA Reports for 2 nd Round Countries (Started)	October 2011		
21.	Side Event at COP held	Dec 2011		
22.	Experience Sharing Workshop for 2 nd round countries	January 2012		
23.	Release of TAPs for 2 nd Round Countries started	February 2012		
24.	Final Country Report submitted (2 nd round countries)	February 2012		
25.	Final version of Guidebooks published	March 2012		
26.	Synthesis and Final Report for Project submitted	April 2012		

Progress Report; Inception Workshop

Inception workshop ; 17-18 February, Paris

- **14 Countries participated**

- Latin America: Costa Rica, Peru, Guatemala
- Africa: Senegal, Mali, Cote d'Ivoire (CIV), Kenya, Morocco
- Asia and Eastern Europe: Georgia, Vietnam, Cambodia, Indonesia, Thailand, Bangladesh

- **Main outcomes/decisions**

- Understanding of the project and project methodology
- Agreement on establishing TNA team and other institutional set-up
- Agreement on UNEP/URC country mission objectives and plans
- Participation in COP 16 to present initial results

- Overall, the workshop established an understanding of the objectives, operational scope of the project, the main challenges ahead, and the level of commitment needed to prepare Technology Action Plans (TAPs).

Progress Report; Country Missions

Country Missions

• Objectives

- to initiate and facilitate the programme formulation and contracting process at national level and;
- to establish and strengthen contacts between the UNEP Risø country coordinators and the national stakeholders

• Main outputs

- Discussions and finalisation of MoU
- Discussions and agreement on institutional structure
- Discussions and agreement on contracting modalities
- Consultations with TNA Team and stakeholders for common understanding of the project
- Draft work-plan for the TNA project at country level
- National consultants selected
- Draft contract and TOR for national consultants

Progress Report; Activities

- **Status of activities in countries**

- National Inception workshop held ;
 - Senegal- May, Côte d'Ivoire- August,
 - Thailand - July (meeting of stakeholders), Indonesia- August,, Georgia –September
 - Argentina -June, Peru- August, Guatemala- August
- National Inception workshops scheduled:
 - Costa Rica- 17 September, Cambodia- 21 September, Morocco- October
- National Inception workshops to be scheduled:
 - Vietnam and Bangladesh in Asia.

(Mali, Kenya and Peru, other three countries but have advanced in other areas)

Progress Report; Activities

Methodology Strengthening and Support

- TNA handbook released May, 2010
- Technology prioritization tool (TNAAssess of the handbook); revision under progress
- Spreadsheet tool for calculating mitigation, and financial analysis
- Three sectoral guidebooks for adaptation over (Water, Agriculture, and Coastal Zone) under development
- Three sectoral guidebooks for mitigation on transport, buildings and agriculture under progress
- Market assessment methodology (barriers identification and enabling framework development) under development

Progress Report; Activities

☐ Capacity Building (regional) Workshops- first round

- September 2010

☐ Regional Centre Support

- RCs in place.

☐ Data facilitation

- Collaboration with UNDP, Regional Centres, IEA, and, experts (guidebooks)

☐ Website and Intranet

- Website operational

www.tech-action.org and intranet operational now

☐ Templates

- TNA Report and TAP

Thank You

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